Non-Canonical Purine NTP Pyrophosphatase (Bli02984, BL00311) (BLi02984) Bacillus Licheniformis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Non-canonical purine NTP pyrophosphatase (BLi02984, BL00311), Recombinant Protein
Full Product Name	Recombinant Bacillus licheniformis Non-canonical purine NTP pyrophosphatase (BLi02984, BL00311)
Product Gene Name	BLi02984 recombinant protein
Product Synonym Gene Name	BLi02984; BL00311
Sequence	MKEVIIATKN EGKVREFKAM LEPRGYDVKS LLDIGYTPEI EETGQTFEEN AVIKAETISK ETGKIVIADD SGLSVDYLGG SPGVYSARYA GEEKNDLANL KKLLKELEGV EKEDRSARFR CALAICIPGQ ETKTVEGSVE GYITEEPRGT NGFGYDPVFL VKDKDQTMAE LSSGEKNKIS HRAEALKKLS ALLDQA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	21,512 Da
Sequence Positions	1-196, Full length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q65GG3
Species	Bacillus licheniformis (strain DSM 13 / 14580)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BLi02984 recombinant protein	MBS1343875 is a recombinant protein targeting BLi02984. Also known as Recombinant Bacillus licheniformis Non-canonical purine NTP pyrophosphatase (BLi02984, BL00311). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BLi02984 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BLi02984. It may not necessarily be applicable to this product.

NCBI GI #	496687786
NCBI Accession #	WP_009329329.1
UniProt Primary Accession #	Q65GG3
UniProt Secondary Accession #	Q62RX0

GenBank Nucleotide #	WP_009329329.1
NCBI Official Full Name	MULTISPECIES: non-canonical purine NTP pyrophosphatase
UniProt Protein Name	dITP/XTP pyrophosphatase
UniProt Synonym Protein Names	Non-canonical purine NTP pyrophosphatase
UniProt Gene Name	BLi02984
UniProt Synonym Gene Names	NTPase
UniProt Comments for BLi02984	Pyrophosphatase that catalyzes the hydrolysis of nucleoside triphosphates to their monophosphate derivatives, with a high preference for the non-canonical purine nucleotides XTP (xanthosine triphosphate), dITP (deoxyinosine triphosphate) and ITP. Seems to function as a house-cleaning enzyme that removes non-canonical purine nucleotides from the nucleotide pool, thus preventing their incorporation into DNA/RNA and avoiding chromosomal lesions.
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